

AMENDMENTS TO THE CLAIMS

1.-72. (Canceled)

73. (New) A method of regulating hematopoietic cell survival comprising:

targeting a mutation to a binding motif capable of binding a cytoplasmic protein of a GM-CSF/IL-3/IL-5 receptor of a hematopoietic cell, wherein the receptor has a beta-chain having an amino acid sequence according to SEQ ID NO: 1 and the binding motif has the amino acid sequence ⁵⁹⁸HSRSLP⁶⁰³, wherein at least one of the residues of the binding motif is capable of being mutated.

74. (New) A method according to claim 73, wherein a serine or threonine residue corresponds to a serine residue at position 601.

75. (New) A method according to claim 73, wherein at least two (2) amino acids at any position from 598-603 are serine.

76. (New) A method according to claim 73, wherein the hematopoietic cell is a leukocyte.

77. (New) A method according to claim 73, wherein the mutation of the binding motif inhibits phosphorylation of the binding motif.

78. (New) A method according to claim 73 wherein at least a serine residue at position 601 is targeted and mutation of the residue inhibits phosphorylation.

79. (New) A method according to claim 73 wherein the mutation of the binding motif is targeted at residue 601.